

117TH CONGRESS  
2D SESSION

# H. R. 7360

To require the Secretary of Energy to establish a program to provide Federal financial assistance to support advanced nuclear reactors and associated supply chain infrastructure, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

APRIL 1, 2022

Mr. MICHAEL F. DOYLE of Pennsylvania (for himself, Mr. GONZALEZ of Ohio, Mr. LAMB, and Mr. DONALDS) introduced the following bill; which was referred to the Committee on Energy and Commerce, and in addition to the Committee on Science, Space, and Technology, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

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## A BILL

To require the Secretary of Energy to establish a program to provide Federal financial assistance to support advanced nuclear reactors and associated supply chain infrastructure, and for other purposes.

1       *Be it enacted by the Senate and House of Representa-  
2 tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4       This Act may be cited as the “Fission for the Future  
5 Act of 2022”.

1   **SEC. 2. ADVANCED NUCLEAR TECHNOLOGIES FEDERAL FI-**

2                   **NANCIAL ASSISTANCE PROGRAM.**

3               (a) DEFINITIONS.—In this section:

4                   (1) ADVANCED NUCLEAR REACTOR.—The term  
5               “advanced nuclear reactor” has the meaning given  
6               the term in section 951(b) of the Energy Policy Act  
7               of 2005 (42 U.S.C. 16271(b)).

8                   (2) ELECTRIC UTILITY.—The term “electric  
9               utility” has the meaning given the term in section  
10               3 of the Federal Power Act (16 U.S.C. 796).

11               (3) ELIGIBLE ENTITY.—The term “eligible enti-  
12               ty” means each of—

13                   (A) a State;  
14                   (B) an Indian Tribe (as defined in section  
15               4 of the Indian Self-Determination and Edu-  
16               cation Assistance Act (25 U.S.C. 5304));

17                   (C) a Tribal Organization (as defined in  
18               section 4 of the Indian Self-Determination and  
19               Education Assistance Act (25 U.S.C. 5304));

20                   (D) a unit of local government;

21                   (E) an electric utility;

22                   (F) a National Laboratory;

23                   (G) an institution of higher education; and

24                   (H) a private entity specializing in—

25                          (i) advanced nuclear technology devel-  
26                          opment;

16                             (6) PROGRAM.—The term “program” means  
17                             the program established under subsection (b)(1).

**20 (b) ESTABLISHMENT OF PROGRAM.—**

21                             (1) IN GENERAL.—The Secretary shall establish  
22                             a program to provide Federal financial assistance to  
23                             eligible entities to support the commercial planning,  
24                             licensing, development, and construction, and con-  
25                             struction planning, of—

1                         (A) advanced nuclear reactors for the pur-  
2                         pose of enhancing grid resilience, reliability, and  
3                         security while also seeking to reduce emissions;

4                         or

5                         (B) supply chain infrastructure associated  
6                         with advanced nuclear reactors or related tech-  
7                         nologies.

8                         (2) COMPETITIVE PROCEDURES.—To the max-  
9                         imum extent practicable, the Secretary shall carry  
10                         out the program using a competitive, merit-based re-  
11                         view process that is consistent with section 989 of  
12                         the Energy Policy Act of 2005 (42 U.S.C. 16353).

13                         (c) APPLICATIONS.—An eligible entity desiring Fed-  
14                         eral financial assistance under the program shall submit  
15                         to the Secretary an application at such time, in such man-  
16                         ner, and containing such information as the Secretary may  
17                         require.

18                         (d) SELECTION.—

19                         (1) IN GENERAL.—In selecting eligible entities  
20                         to receive Federal financial assistance under the pro-  
21                         gram, the Secretary shall give special consideration  
22                         to projects—

23                         (A) to develop or provide services to sup-  
24                         port—

25                         (i) market analysis;

(ii) project structure models;

### (iii) models for electricity market

3 analysis;

(iv) nonelectric applications;

(v) financial models;

(vi) analysis, planning, and, as appro-

7 appropriate, management of environmental  
8 issues at fossil fuel electric generation fa-  
9 cilities that are retired or scheduled to re-

10 tire; and

(vii) site planning review testing

#### 12 analysis and preparation:

15 (C) for—

(i)(I) the construction planning of ad-

<sup>17</sup> advanced nuclear reactors; and

18 (II) related—

(aa) planning and construction of

20 transmission and distribution systems:

## (bb) modernization of generation

22 facilities;

(cc) development of microgrids;

24 and

(dd) supply chain infrastructure;

14 (i) to reduce the cost of—  
15 (I) infrastructure requirements;  
16 (II) transmission requirements;  
17 and  
18 (III) licensing and permitting re-  
19 quirements;  
20 (ii) to support the productive reuse of  
21 fossil fuel electric generation facilities that  
22 are retired or scheduled to retire; and  
23 (iii) to sustain and revitalize commu-  
24 nities impacted by the closure of fossil fuel  
25 electric generation facilities;

- 1                             (B) plan to support nonelectric applica-  
2                             tions, including supplying heat for—  
3                                 (i) energy storage;  
4                                 (ii) hydrogen or other liquid and gas-  
5                                 eous fuel or chemical production;  
6                                 (iii) industrial processes;  
7                                 (iv) desalination technologies and  
8                                 processes;  
9                                 (v) isotope production;  
10                                 (vi) district heating; and  
11                                 (vii) other applications, as the Sec-  
12                                 retary determines to be appropriate;
- 13                             (C) plan to support supply chain infra-  
14                                 structure, including manufacturing, associated  
15                                 with advanced nuclear reactors or related tech-  
16                                 nologies;
- 17                             (D) have implemented or demonstrated the  
18                                 ability to successfully implement workforce  
19                                 training or retraining programs to train work-  
20                                 ers to perform activities described in this sec-  
21                                 tion; and
- 22                             (E) plan to be cost competitive.

23                             (e) COST SHARE.—Section 988 of the Energy Policy  
24                             Act of 2005 (42 U.S.C. 16352) shall apply to Federal fi-  
25                                 nancial assistance provided under the program.

1 **SEC. 3. WORKFORCE CAPACITY BUILDING.**

2       Section 954(b) of the Energy Policy Act of 2005 (42  
3 U.S.C. 16274(b)) is amended—

4           (1) in the subsection heading, by striking  
5       “GRADUATE”;

6           (2) by striking “graduate” each place it ap-  
7       pears;

8           (3) in paragraph (2)(A), by inserting “commu-  
9       nity colleges, trade schools, registered apprenticeship  
10      programs, pre-apprenticeship programs” after “uni-  
11      versities.”;

12          (4) in paragraph (3), by striking “2021  
13      through 2025” and inserting “2023 through 2027”;

14          (5) by redesignating paragraph (3) as para-  
15       graph (4); and

16          (6) by inserting after paragraph (2) the fol-  
17       lowing:

18           “(3) FOCUS AREAS.—In carrying out the sub-  
19       program under this subsection, the Secretary may  
20      implement traineeships in focus areas that, in the  
21      determination of the Secretary, are necessary to sup-  
22      port the nuclear energy sector in the United States,  
23      including—

24           “(A) research and development;

25           “(B) construction and operation;

26           “(C) associated supply chains; and

1           “(D) workforce training and retraining to  
2       support transitioning workforces.”.

